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(54) **PLASMA JET SPRAYING METHOD AND APPARATUS**

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(57) Abstract:

PURPOSE: To attain to make an apparatus compact and to reduce the cost thereof, by successively arranging a welder, a plast chamber, a purification chamber and a plasma spraying chamber in a section for passing a metal strip material to be treated.

CONSTITUTION: A treating material 1 wound in a coil from is passed between an unwinder 2 and a winder 3 and successively unwound by the unwinder 2 to enter a plast chamber 6 where receives steel grids or sand sprayed in order to activate the surface thereof. Next, the surface activated material 1 enters a discharge purification chamber 13 through a vacuum seal part 9a to receive surface cleaning by a plasma arc and is heated to a required preheating temp. Then, required plasma spraying is applied to the surface of the treating material 1. By this method, required plasma spraying is performed to the surface of the treating material 1 and equipment is made compact and inexpensive.

